

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Small et al.

PATENTER 1600/2900 ned 45 Examiner: Unassigned

Serial No.:

09/636,259

Group Art Unit: 1645

Filed:

August 10, 2000

Docket: 13092

For:

Alpha-2A-adrenergic receptor polymorphisms

Dated: April 3, 2001

Kalow & Springut LLP 488 Madison Avenue, 19th Fl

New York, NY 10022

Assistant Commissioner for Patents Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. 1.97(b), the attorneys for the Applicants hereby bring to the attention of the Patent and Trademark Office the following documents related to the field of the invention of the application identified above:

I. U.S. PATENT DOCUMENTS

Patent No.

Date Issued

Title

5,648,482 to

Jul. 15, 1997

Primers Targeted to CYP2D6

Gene for Detecting Poor

Metabolizers of Drugs

5,846,710 to

Bajaj

Meyer

Dec. 8, 1998

Method for the Detection of

Genetic Diseases and Gene Sequence Variations by Single Nucleotide Primer

Extension

Certificate of Mailing Under 37 C.F.R. 1.8

I hereby declare that this correspondence is being deposited with the United States Postal Service as first class

mail in an envelope addressed to: Assistant Commissioner of Patents, Washington, DC 20231

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		April 3, 200
Patent No. 5,856,092 to Dale et al.	Date Issued Jan. 5, 1999	<u>Title</u> Detection of a Nucleic Acid Sequence or a Change Therein
5,888,819 to Goelet et al.	Mar. 30, 1999	Method for Determining Nucleotide Identity Through Primer Extension
5,981,174 to Wolf et al.	Nov. 9, 1999	Genetic Assay
6,004,744 to Goelet et al.	Dec. 21, 1999	Method for Determining Nucleotide Identity Through Extension of Immobilized Primer
6,013,431 to Soderlund et al.	Jan. 11, 2000	Method for Determining Specific Nucleotide Variations by Primer Extension in the Presence of Mixture of Labeled Nucleotides and Terminators
6,156,503 to Drazen et al.	Dec. 5, 2000	Diagnosing Asthma Patients Predisposed to Adverse β-Agonist Reactions

II. NON PATENT PUBLICATIONS

Limbird, L.E. (1988) FASEB J 2, 2686-2695.

Luttrell, L.M., van Biesen, T., Hawes, B.E., Della Rocca, G.J., Luttrell, D.K., and Lefkowitz, R.J. (1998) in *Catecholamines: Bridging Basic Science with Clinical Medicine* (Goldstein, D.S., Eisenhofer, G., and McCarty, R., eds) pp. 466-470, Academic Press.

Ruffolo, R.R., Jr., Nichols, A.J., Stadel, J.M., and Hieble, J.P. (1993) Annu Rev Pharmacol Toxicol 32, 243-279.

Hein, L., Altman, J.D., and Kobilka, B.K. (1999) Nature 402, 181-184.

Altman, J.D., Trendelenburg, A.U., MacMillan, L., Bernstein, D., Limbird, L., Starke, K., Kobilka, B.K., and Hein, L. (1999) *Mol. Pharmacol.* 56, 154-161.

Lakhlani, P.P., MacMillan, L.B., Guo, T.Z., McCool, B.A., Lovinger, D.M., Maze, M., and Limbird, L.E. (1997) *Proc Natl Acad Sci USA* 94, 9950-9955.

Applicant: Small et al. Serial No.: 09/636,259

April 3, 2001

Holmes, B., Brogden, R.N., Heel, R.C., Speight, T.M., and Avery, G.S. (1983) Drugs 26, 212-229.

Dao, T.T., Kailasam, M.T., Parmer, R.J., Le, H.V., Le Verge, R., Kennedy, B.P., Ziegler, G., Insel, P.A., Wright, F.A., and O'Connor, D.T. (1998) *J Hypertens* 16, 779-792.

Goldstein, D.S., Grossman, E., Listwak, S., and Folio, C.J. (1991) Hypertension 18, III40-III48.

Lockette, W., Ghosh, S., Farrow, S., MacKenzie, S., Baker, S., Miles, P., Schork, A., and Cadaret, L. (1995) Am J Hypertens 8, 390-394.

Svetkey, L.P., Timmons, P.Z., Emovon, O., Anderson, N.B., Preis, L., and Chen, Y.-T. (1996) *Hypertension* 27, 1210-1215.

Liggett, S.B. (1998) Clin and Exp. Allergy 28, 77-79.

Guyer, C.A., Horstman, D.A., Wilson, A.L., Clark, J.D., Cragoe, E.J.Jr., and Limbird, L.E. (1990) *J Biol Chem* **265**, 17307-17317.

Rutkowski, M.P., Klanke, C.A., Su, Y.R., Reif, M., and Menon, A.G. (1998) *Hypertension* 31, 1230-1234.

Eason, M.G. and Liggett, S.B. (1992) J.Biol.Chem. 267, 25473-25479.

Jewell-Motz, E.A. and Liggett, S.B. (1996) J.Biol. Chem. 271, 18082-18087.

de chasseval, R. and de Villartay, J.-P. (1991) Nucleic Acids Research 20, 245-250.

Eason, M.G., Moreira, S.P., and Liggett, S.B. (1995) J.Biol. Chem. 270, 4681-4688.

Jewell-Motz, E.A., Donnelly, E.T., Eason, M.G., and Liggett, S.B. (1998) *Biochem* 37, 15720-15725.

Schwinn, D.A., Page, S.O., Middleton, J.P., Lorenz, W., Liggett, S.B., Yamamoto, K., Caron, M.G., Lefkowitz, R.J., and Cotecchia, S. (1991) *Mol.Pharmacol.* 40, 619-626.

Martin, T.F.J. (1983) J Biol Chem 258, 14816-14822.

Eason, M.G., Jacinto, M.T., Theiss, C.T., and Liggett, S.B. (1994) *Proc.Natl.Acad.Sci.*, *USA* 91, 11178-11182.

Smith, P.K., Krohn, R.I., Hermanson, G.T., Mallia, A.K., Gartner, F.H., Provenzano, M.D., Fujimoto, E.K., Goeke, N.M., Olson, B.J., and Klenk, D.C. (1985) *Anal.Biochem.* 150, 76-85.

Eason, M.G. and Liggett, S.B. (1996) J.Biol.Chem. 271, 12826-12832.

Applicant: Small et al. Serial No.: 09/636,259

April 3, 2001

Exton, J.H. (1996) Annu Rev Pharmacol Toxicol 36, 481-509.

MacMillan, L.B., Lakhlani, P., Lovinger, D., and Limbird, L.E. (1998) Recent Prog Horm Res 53, 25-42.

Makaritsis, K.P., Johns, C., Gavras, I., Altman, J.D., Handy, D.E., Bresnahan, M.R., and Gavras, H. (1999) *Hypertension* 34, 403-407.

Spiegel, A.M. (1996) Annu Rev Physiol 58, 143-170.

Kotanko, P., Binder, A., Tasker, J., DeFreitas, P., Kamdar, S., Clark, A.J., Skrabal, F., and Caulfield, M. (1997) *Hypertension* 30, 773-776.

Liggett, S.B., Wagoner, L.E., Craft, L.L., Hornung, R.W., Hoit, B.D., McIntosh, T.C., and Walsh, R.A. (1998) *J Clin Invest* 102, 1534-1539.

Tan, S., Hall, I.P., Dewar, J., Dow, E., and Lipworth, B. (1997) Lancet 350, 995-999.

Green, S.A., Cole, G., Jacinto, M., Innis, M., and Liggett, S.B. (1993) *J Biol Chem* 268, 23116-23121.

Shenker, A., Laue, L., Kosugi, S., Merendino, J.J., Minegishi, T., and Cutler, G.B. (1993) *Nature Lond* 365, 652-654.

WEB PAGE

http://www.adrenoceptor.com/alphaintro.htm (visited April 2, 2001)

http://www.tocris.com/adrenoceptor.htm (visited March 12, 2001)

The items listed above are identified on Form PTO 1449 which is submitted with this statement. A copy of each of the items identified above is submitted with this statement.

The attorneys for the Applicant take no position on whether or not any item cited above and listed on Form PTO 1449 constitutes prior art against the subject application under any particular provision of Title 35 of the United States Code.

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If a fee is deemed necessary, please charge any payment, or credit any overpayment, to deposit account no. 11-0171.

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